

Work Order ID 138585***138585***

Page 1

Item ID: D4287-1

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Uhmw U-Channel

Start Date: 11/3/2015 Start Qty: 40.00

40

Cust Item ID:

Required Date: 11/3/2015 Req'd Qty: 40.00

40

Customer:

Reference:

Approvals: Process Plan: ML5 Date: NOV 03 2015

Tooling:

Date:

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____

Date:

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
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D4287	A
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100

0.00

100

Purchasing

Memo

0.00

Purchasing

Issue P/O: 30366
Material: UHMW (white)
Supplier P#: McMaster-Carr 9928K53
Material release note requiredCL NOV 04 2015 40

110

Receive & Inspect for Damage & Mat'l Certs

0.00

110

Packaging

Memo

0.01

Packaging

40x SP 1511-7

120

QC6- Inspect dimensions to drawing

0.00

120

QC

Memo

0.00

Quality Control

(40) DAS
\$8
9-89
NOV 09 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="width:15%;">Skid-tube ☐</td> <td style="width:15%;">Cross tube ☐</td> <td style="width:15%;">Water Jet ☐</td> <td style="width:15%;">Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Description Work Order Deviation				Disposition																					

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Work Order ID 138585***138585***

Page 2

Tuesday, November 03, 2015 11:44:41 AM

Item ID: D4287-1 Accept ***N1900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Uhmw U-Channel
Start Date: 11/3/2015 Start Qty: 40.00 ***40*** Cust Item ID:
Required Date: 11/3/2015 Req'd Qty: 40.00 ***40*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Identify as per dwg & Stock Location: <u>S147A</u>	0.00							
130									
Packaging	Memo	0.01							
Packaging									
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.07							
Quality Control									

NOV 09 2015

NOV 10 2015

0159110

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="width:15%;">Skid-tube ☐</td> <td style="width:15%;">Cross tube ☐</td> <td style="width:15%;">Water Jet ☐</td> <td style="width:15%;">Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																													
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Picklist Print

Tuesday, November 03, 2015 11:44:45 AM

Page 1

Work Order ID: 138585

138585

Parent Item: D4287-1

D4287-1

Parent Item Name: Uhmw U-Channel

Start Date: 11/3/2015

Required Date: 11/3/2015

Start Qty: 40.00

Required Qty: 40.00

Comments: IPP Rev:A 10.11.15 new issue DD Verf:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
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9928K53

Purchased

No

110

f

0.0000

1

40

9928K53

UHMW U-Channel

40x SP15-11-7.

DQA: _____ Date: _____



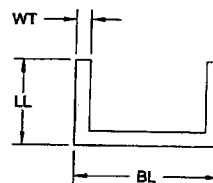
WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

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				OTHER :							

SPECIFICATION CONTROL DRAWING



STOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO A CHANGE
WITHOUT NOTICE
WORK ORDER
NO 138585 MJS
15-11-03

D4287-X UHMW U-CHANNEL

DART PART NUMBER	POSSIBLE SUPPLIER	SUPPLIER PART NUMBER	MATERIAL	PURCHASED LENGTH	BASE LENGTH (BL)	LEG LENGTH (LL)	WALL THICKNESS (WT)	WEIGHT (lbs)
D4287-1	McMASTER-CARR	9928K53	UHMW (WHITE)	96.0	1.05	0.75	0.250	2.11
D4287-3	McMASTER-CARR	8672K31	UHMW (WHITE)	96.0	1.25	0.75	0.125	1.29

RELEASED
2010-11-03
JMD

NOTES:

- 1) MATERIAL: PURCHASE PER TABLE OR UHMW BLACK TIVAR 1000 VIRGIN MATERIAL REF. DART SPEC. MUHMW
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: NONE
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: PER TABLE

A		NEW ISSUE		MB	10.10.26
REV.		DESCRIPTION		BY	DATE
DESIGN		DART AEROSPACE LTD			
DRAWN		HAWKESBURY, ONTARIO, CANADA			
CHECKED		DRAWING NO. DSC-D4287		REV. A	
MFG. APPR.		TITLE UHMW U-CHANNEL		SHEET 1 OF 1	
APPROVED				SCALE	
DE APPR.				NTS	
DATE	10.10.26				

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Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO30366**

Purchase Order Date 11/4/2015

PO Print Date 11/4/2015

Page Number 1 of 6

Order From :

VU-MCM001

Ship To : DART AEROSPACE LTD

MCMaster-CARR SUPPLY CO,
P.O. BOX 7690
CHICAGO, IL 60680-7690
US

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAXED

Contact Name

Vendor Phone 330 995 5500

Ship To Contact

Ship To Phone

Ship Via: Purolator ground ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms

Net 10

Currency

USD

FOB

FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	98470A133 AS PER DWG D4811 REV. A B138584	Pin, Quick Release	11/6/2015 Yes 11/6/2015		10.00 Each	\$3.01	\$30.10
Line Total:							\$30.10
2	9928K53 AS PER DWG D4287 REV. A B138585	UHMW U-Channel	11/6/2015 Yes 11/6/2015		40.00 f	\$2.28	\$91.20
Line Total:							\$91.20
3	8672K31 AS PER DWG D4287 REV. A B138583	UHMW U-Channel	11/6/2015 Yes 11/6/2015		40.00 f	\$3.26	\$130.40

Note:

11/4/2015



Packing List

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6H 1K7
Canada
Attention: Jean-Luc
Eric L

Purchase Order
PO30366

Order Placed By
Chantal Lavoie

McMaster-Carr Number
2957619-01

Page 1 of 2

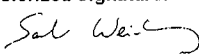
11/04/2015

Line	Product	Ordered	Shipped
2	9928K53 Impact-Resistant UHMW Polyethylene U-Channel, 1" Base X 3/4" Legs, 1/4" Thick	40 Feet	40

Shipped separately from our Cleveland warehouse on 11/04

1	98470A133 18-8 Stainless Steel Shoulder-Style Quick-Release Pin, Ring Grip, 1/4" Diameter, 1.3" Usable Length	10 Each	10
3	8672K31 UHMW Polyethylene Trim, Screw Mount, U-Shape, 1" Inside Width	40 Feet	40
4	2841A61 Carbide Small-Diameter Drill Bit with 1/8" Shank, #5, 1-1/2" Overall Length, .39" Drill Depth	5 Each	5
5	7077A38 1/4" Shank-Mount Light Cleaning Brush, for Stainless Steel and Aluminum, 3" Brush Diameter, 0.010" Bristle Diameter	6 Each	6
6	6383K47 Steel Ball Bearing, Plain Open for 5/8" Shaft Diameter, 1-1/2" OD, 7/16" W	6 Each	6
7	6383K57 Steel Ball Bearing, Plain Open for 1" Shaft Diameter, 2" OD, 1/2" Width	4 Each	4
8	2737T9 Finished-Bore Sprocket for ANSI Roller Chain, for #25 Chain, 1/4" Pitch, 17 Teeth, 1/4" Bore	3 Each	3
9	6793K22 Steel Machinable-Bore Sprocket, for ANSI No. 25 Roller Chain, 1/4" Pitch, 45 Teeth	2 Each	2
10	98535A440 Spring Steel Standard Key Stock, 3/16" X 3/16", 36" Length	1 Each	1
11	6261K171 Roller Chain, ANSI No. 25, 1/4" Pitch, 3' Long	2 Each	2
12	6261K108 Connecting Link for ANSI No. 25, Roller Chain	2 Each	2
13	57545K427 10 Pitch Worm for 14-1/2 Degree Pressure Angle, Speed-Reducing Worm Gear for 90 Degree Transfer	1 Each	1

McMaster-Carr Supply Company 600 County Line Rd Elmhurst, IL 60126-2081 USA Phone: 330-995-5500 Fax: 330-995-9600 E-Mail: cle.sales@mcmaster.com Employer Identification Number (EIN): 36-1458720		Invoice: 42808002 Purchase Order: PO30366 Release: McMaster-Carr Number: 2957619-01		ORIGINAL COMMERCIAL INVOICE CERTIFICATE OF ORIGIN	
Ultimate Destination: Dart Aerospace Ltd 1270 Aberdeen St Hawkesbury ON K6A 1K7 Canada		Shipped: 05-Nov-2015		FOB: ORIGIN	
Intermediate Consignee:		Shipper's Export Declaration (SED): NO EEI 30.36			
Forwarding Agent:		Bill To: Dart Aerospace Ltd 1270 Aberdeen St Hawkesbury ON K6A 1K7 Canada			
		Tax Number:			
		Billing Attention:			
		Shipping Attention: Jean-Luc Eric L			
		Contact:			

Line	Description	Qty & Unit	Unit Price	Extension
2	9928K53 Impact-Resistant UHMW Polyethylene U-Channel, 1" Base X 3/4" Legs, 1/4" Thick Country of Origin: United States Schedule B #: 391610 ECCN #: EAR99 NLR NOTE Tracking number(s) for this shipment: MFA004500149	40 FT	\$2.28	\$91.20
Your order is subject only to our terms and conditions, available at www.mcmaster.com or from our Sales Department. These commodities, technology, or software were exported from the United States in accordance with Export Administration regulations. Diversion contrary to US law is prohibited.				
Shipping Weight (in kgs): 8		Number of Packages: 1		Invoice Amounts:
Package Dimensions: 262 X 15 X 15 CM = .057 CUBIC M		Merchandise Amount: \$91.20 Canadian GST/HST: \$15.35 Shipping Charges: \$26.84 Total (In USD): \$133.39		
Payment Terms: 2% discount on merchandise only if paid within 10 days, net 30 days				
Authorized Signature: 		Date: 05-Nov-2015		
Name: Sarah Weinberg		Title: Operations Mgr.		
		Remit payment to: (by wire transfer) Bank of America Illinois 231 S LaSalle Chicago, IL 60697 ABA 071000039 Account 86666-02021 SWIFT BOFAUS3N		